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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,045	01/19/2005	Masashi Okamoto	10873.1576USWO	4002
52835 7590 03/25/2009 HAMRE, SCHUMANN, MUELLER & LARSON, P.C. P.O. BOX 2902			EXAMINER	
			SHAW, AMANDA MARIE	
MINNEAPOLIS, MN 55402-0902			ART UNIT	PAPER NUMBER
		1634		
			MAIL DATE	DELIVERY MODE
			03/25/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Advisory Action Before the Filing of an Appeal Brief

Application No.		Applicant(s)	
	10/522,045	OKAMOTO ET AL.	
Examiner		Art Unit	
	AMANDA SHAW	1634	

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The MAILING DATE of this communication appea	rs on the cover sheet with the	correspondence address
THE REPLY FILED <u>02 March 2009</u> FAILS TO PLACE THIS APP	LICATION IN CONDITION FOR	ALLOWANCE.
1. The reply was filed after a final rejection, but prior to or on the application, applicant must timely file one of the following reapplication in condition for allowance; (2) a Notice of Appear for Continued Examination (RCE) in compliance with 37 CF periods:	ne same day as filing a Notice of plies: (1) an amendment, affidavi Il (with appeal fee) in compliance	Appeal. To avoid abandonment of this t, or other evidence, which places the with 37 CFR 41.31; or (3) a Request
<ul> <li>a) The period for reply expires 3 months from the mailing date of b)</li> <li>b) The period for reply expires on: (1) the mailing date of this Advance event, however, will the statutory period for reply expire late Examiner Note: If box 1 is checked, check either box (a) or (b) MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).</li> </ul>	visory Action, or (2) the date set forth er than SIX MONTHS from the mailin	g date of the final rejection.
Extensions of time may be obtained under 37 CFR 1.136(a). The date or have been filed is the date for purposes of determining the period of exterunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shipset forth in (b) above, if checked. Any reply received by the Office later that may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	nsion and the corresponding amount ortened statutory period for reply origi	of the fee. The appropriate extension fee nally set in the final Office action; or (2) as
2. The Notice of Appeal was filed on A brief in complia filing the Notice of Appeal (37 CFR 41.37(a)), or any extens Notice of Appeal has been filed, any reply must be filed with AMENDMENTS	ion thereof (37 CFR 41.37(e)), to	avoid dismissal of the appeal. Since a
3. The proposed amendment(s) filed after a final rejection, but  (a) They raise new issues that would require further cons  (b) They raise the issue of new matter (see NOTE below  (c) They are not deemed to place the application in bette appeal; and/or	ideration and/or search (see NO <sup>-</sup> );	ΓE below);
(d) ☐ They present additional claims without canceling a co NOTE: (See 37 CFR 1.116 and 41.33(a)).		
4. The amendments are not in compliance with 37 CFR 1.121 5. Applicant's reply has overcome the following rejection(s):		
<ol> <li>Newly proposed or amended claim(s) would be allowed non-allowable claim(s).</li> </ol>	wable ii submilled in a separale,	umery flied amendment canceling the
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is provided the status of the claim(s) is (or will be) as follows:  Claim(s) allowed:  Claim(s) objected to:  Claim(s) rejected:  Claim(s) withdrawn from consideration:		l be entered and an explanation of
AFFIDAVIT OR OTHER EVIDENCE		
<ol> <li>The affidavit or other evidence filed after a final action, but I because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).</li> </ol>		
<ol> <li>The affidavit or other evidence filed after the date of filing a entered because the affidavit or other evidence failed to ove showing a good and sufficient reasons why it is necessary a</li> </ol>	ercome <u>all</u> rejections under appea	al and/or appellant fails to provide a
10. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	of the status of the claims after e	ntry is below or attached.
11. The request for reconsideration has been considered but on See Continuation Sheet.	,	n condition for allowance because:
<ul><li>12. ☐ Note the attached Information <i>Disclosure Statement</i>(s). (P</li><li>13. ☐ Other:</li></ul>	TO/SB/08) Paper No(s)	
	/Carla Myers/	
	Primary Examiner, Art U	Init 1634

Continuation of 11. does NOT place the application in condition for allowance because: Regarding the rejection made under 35 USC 112 2nd paragraph the Applicants argue that it is clear from the recited features that at the time the collecting solution is poured, the centrifugation tube includes the liquid phase part absorbed by the water absorbing particles and the microorganism or cell caught on the surface of the water absorbing resin particles. Therefore the Applicants submit that claim 1 is fully consistent and definite.

This argument has been fully considered but is not persuasive. In the instant case the claims recite the phrase "wherein the collecting solution is poured into the centrifugation tube without separating the liquid phase part absorbed by the water-absorbing resin particles from the water absorbing resin particles that have absorbed the liquid phase part". This recitation is confusing because it is unclear if there is actually a liquid phase in the centrifugation tube prior to adding the collection solution. The first step of the claims requires that the water absorbing resin particles absorb substantially all of the liquid phase therefore at the time the collection solution is added there would not be a liquid phase in the centrifugation tube.

Regarding the rejection made under 35 USC 103 the Applicants respectfully submit that the rejection is relying on the improper use of hindsight in the interpretation of the references. The Applicants further argue that Sato is directed to separating only viruses whereas Wardlaw is directed to separating formed constituents in general. They further state that Sato is specifically intended to utilize particular types of particles that isolate viruses from other components in a sample which may adversely affect amplification. As such the use of hydrogel particles in amounts that would absorb all of the liquid in the sample as taught by Wardlaw would in fact frustrate the purposes of Sato, as such use of the hydrogel particles would capture unwanted components that may adversely affect the amplification reaction of the viral gene. They further argue that nothing in Sato teaches that the particles are added in amounts that substantially absorb all of the liquid of the sample and that Sato is silent as to whether their hydrogel particles are even capable of absorbing water. They state that even if it was assumed that Satos hydrogel particles are capable of absorbing water it is clear that more hydrogel particles would need to be added in order to absorb essentially all of the liquid of the sample and that Sato clearly notes that the addition of virus binding particles in too large a quantity is undesirable. The Applicants further state that Wardlaw teaches away from the use of centrifugation and filters.

These arguments have been fully considered but are not persuasive. The previous office action acknowledges that Sato does not teach a method wherein the water absorbing particles absorb substantially all of the liquid in the liquid phase of a sample, however a 103 rejection was made and a secondary reference (Wardlaw) was used to cure this deficiency. Wardlaw teaches a method wherein it was desirable to use enough hydrogel so that essentially all of the liquid in a sample is absorbed (para 0011). Thus Wardlaw clearly teaches what is missing from Sato. The fact that Sato is concerned with separating only viruses whereas Wardlaw is directed to separating formed constituents is irrelevant because Wardlaw is only being relied upon for teaching a method wherein hydrogels are used to absorb all of the liquid in a sample. The Applicants argue that the use of hydrogels particles in amounts that would absorb all of the liquid in the sample as taught by Wardlaw would in fact frustrate the purposes of Sato however the Applicants have not provided any evidence that the particles would adsorb unwanted components. Further it is noted for the record that it is a property of any hydrogel that it is superabsorbent therefore it is a property of the hydrogel particles of Sato that they are capable of absorbing water. Further Sato away from adding additional particles, Sato merely states that in situations were there are small amounts of virus the use of too many particles results in low separation. One of skill in the art at the time of the invention would have recognized that the number of particles required would depend on the absorbent properties of the hydrogel particles, the amount of liquid present in the sample, and the amount of virus suspected of being in the sample, based on this information one would be able to choose the appropriate number of particles to use. Further it is noted that the method of Wardlaw does not use a centrifuge or filter but again Wardlaw is only being relied upon for teachings hydrogels. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See In re McLaughlin, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).